

# CLAIMS

1. An apparatus for roughing edges of solid concrete casted blocks comprising:

a block support conveyor for supporting and conveying a series of blocks;

at least one roughing device disposed at a given distance from a block to be roughened; said device including at least one impacting arm having a first end connected to a drive shaft having an axis and a second end connected to an impacting element; said shaft being connected to drive means allowing said shaft to define an arcuate reciprocating motion causing said impacting element to impact said block and to crumble concrete from an edge of said block; said at least one impacting arm said edge at an angle of about 45° relative to the axis of said drive shaft; and

means securing said block during impact.

2. The apparatus as defined in claim 1, wherein said roughing device include a first series of impacting arms adjacently disposed to one another and mounted on said shaft to crumble said block at different locations along said edge thereof.

3. The apparatus as defined in claim 2, wherein said roughing device includes a second series of impacting arms disposed adjacently to one another and mounted on said shaft at about 90° relative to said first series of impacting arms; said apparatus further including a second block support for supporting and conveying a second block.

4. The apparatus as defined in claim 1, further comprising a second drive shaft having an axis parallel to the axis of said first drive shaft and including at least one second roughing device having at least one rigid arm having a first end connected to said second drive shaft and a second end connected to an impacting element; said second drive shaft being connected to second drive means allowing said second drive shaft to define an accurate reciprocating motion causing said impacting element to impact said block and to crumble concrete from another edge of said block.

5. The apparatus as defined in claim 4, wherein said roughing device on said second drive shaft includes a first series of said impacting arms adjacently disposed to one another and mounted on said shaft to crumble said block at different locations along said other edge thereof.

6. The apparatus as defined in claim 5, wherein said second roughing device on said second drive shaft includes a second series of impacting arms disposed adjacently to one another and mounted on said second drive shaft at about 90° relative to said first series of impacting arms on said second drive shaft; said apparatus further including a second block support for supporting and conveying said block.

7. The apparatus as defined in claim 4, wherein said drive shafts are in a same vertical plane between said block support conveyors.

8. The apparatus as defined in claim 4, wherein said drive shafts are longitudinally spaced from one another between said block support conveyors.

9. The apparatus as defined in claim 3, wherein said roughing device includes a third and a fourth series of said impacting arms disposed adjacently to one another and mounted on said shaft; said third and fourth series being disposed at a 90° angle relative to said first and second series of roughing devices so as to causing said impacting elements to impact said blocks mounted on two adjacent conveyor means and to crumble concrete from an opposite lower edge of said blocks.

10. The apparatus as defined in claim 1, wherein said impacting element is made of an impact resistant material.

11. The apparatus as defined in claim 9, wherein said material is a metal and has a cylindrical shape.